A REVISED KEY TO THE *IDIODONUS* (HOMOPTERA: CICADELLIDAE) OF MEXICO AND BOLIVIA¹

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ABSTACT: A revised key is presented for the forty described species of *Idiodonus* of Mexico and Bolivia. Species treated are 2 described by Ball: *I. wickhami* and *I. schwartzi*, and 38 described by DeLong: *I. graeculus*, *I. costatus*, *I. rubellus*, *I. spatulatus*, *I. tubulus*, *I. sexpunctatus*, *I. marginatus*, *I. albifrons*, *I. anademus*, *I. nigridens*, *I. apertus*, *I. beamerellus*, *I. vinculatus*, *I. incisurus*, *I. caldwelli*, *I. pallidus*, *I. turpiter*, *I. albocinctus*, *I. beamerellus*, *I. orputs*, *I. clastrus*, *I. clastrus*, *I. titulus*, *I. mexicanus*, *I. goodi*, *I. copulus*, *I. latidens*, *I. incidus*, *I. ingifrons*, *I. insculptus*, *I. clastrus*, *I. deatulus*, *I. excavatus*, *I. dicerus*, *I. bakeri*, and *I. plummeri*. All species are from Mexico except *I. costatus* which is from Bolivia. Illustrations of the color markings on the head, pronotum and scutellum, and of the 7th sternum of the females are included.

The genus *Idiodonus* was described by Ball (1936) with *Jassus* kennicotti Uhler designated as the type species. DeLong (1946) described 32 Mexican species of *Idiodonus* and published a key with illustrations. Five additional Mexican species and one from Bolivia were described by DeLong (1983). Since the male genital structures in this genus are of little or no value, the color patterns and φ genitalia are used for species identification in this revised key to the species of *Idiodonus*. Illustrations of the color markings on the head, pronotum and scutellum of all species and the female 7th sternum of most species are included. Females of a few species are not known. The species of *Idiodonus* in Mexico occur normally on perennial plants and shrubs, and are found mostly at higher altitudes, 5000 to 12000 feet elevation.

Revised Key to the Species of Idiodonus of Mexico and Bolivia

1.	Crown without black markings	2
1'	Crown with black markings	3
2(1)	Face with 2 black spots(Fig. 7) graeculus DeLong	
2'	Face with black markings	
3(1)	Crown and pronotum with small punctate spots or flecks of red	- 4
3'	Crown and pronotum without reddish coloration	5
4(3)	Margin of crown, only, with black spots (Figs. 4, 66) rubellus DeLong	
4'	Crown and pronotum with black markings (Figs. 14, 37) wickhami Ball	
5(3')	Crown, only, with black markings	6
5'	Crown with black markings and black or dark fulvus markings on pronotum	20
6(5)	Crown, only, with black rounded spots	7

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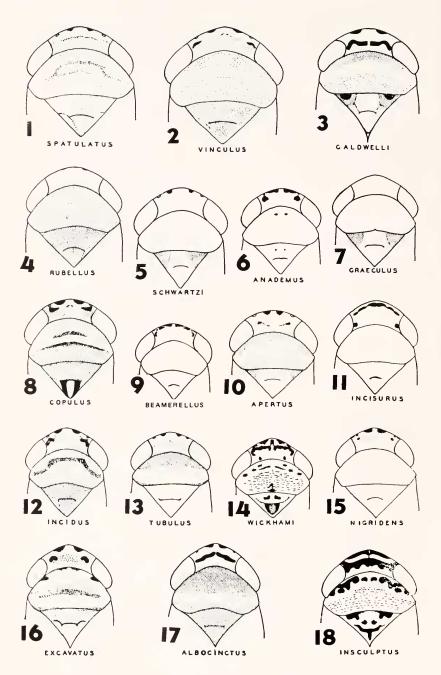
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6'	Crown with rounded spots in combination with other color markings or with elongate spots, or transverse bands	11
7(6)	Crown with round black spots only on or near margin	8
7'	Crown with 2 black spots on margin and 2 distal spots	10
8(7)	Female 7th sternum with spatulate process (Figs. 1, 40) spatulatus DeLong	
8'	Female 7th sternum not spatulate	9
9(8')	Female 7th sternum broadly rounded, produced	1
9'	Female 7th sternum produced, broadly, shallowly excavated apically (Figs. 13, 55) tubulus DeLong	
10(7')	Margin of crown with 2 large elongate spots at middle and a small spot on margin, close to each eye (Figs. 69, 75) sexpunctatus DeLong	
10'	Margin of crown with a series of fused black spots (fig. 70) marginatus	
11(6')	Crown with rounded spots distal to margin	12
11'	Crown with elongate markings distal to margin	14
12(11)	Basal portion of crown with 2 proximal small round spots	
12'	Crown with small black spots close to each eye	13
13(12')	Female 7th sternum roundly produced, with a slight V-shaped notch at apex	
13'	Female 7th sternum produced, excavated at apex and bearing a small	
14(11')	tooth in excavation(Figs. 15, 50) <i>nigridens</i> DeLong Margin of crown with 4 rounded spots and a black dash spot next to each	15
1.42	eye	17
14' 15(14)	Without a small dash spot next to each eye	17
15'	Female 7th sternum produced and rounded	16
16(15')	Female 7th sternum broadly rounded with a U-shaped notch 1/3 length of segment	10
16'	Female 7th sternum more produced, with a slight U-shaped notch at apex	
	(Figs. 2, 35) vinculus DeLong	
17(14')	Crown with a narrow black band just above margin (Figs. 11, 44)	
17'	Crown without a continuous black band	18
18(17')	Distal portion of crown with a broken black band (Figs. 3, 45) caldwelli	10
	DeLong	
18'	Distal portion of crown with a broken black band	19
19(18')	Crown with 4 dash lines, basal angles of scutellum black	
19'	Crown with 4 dash lines, basal angles of scutellum not black	
	(Figs. 24, 57) turpiter DeLong	
20(5')	Pronotum with white transverse band between fulvus transverse bands (Figs. 17, 52) <i>albocinctus</i> DeLong	
20'	Pronotum with black spots or bands	21
21(20')	Pronotum with 2 broad, transverse, black bands	22
21'	Pronotum with black spots or only 1 transverse black band	24
22(21) 22'	Pronotum with distal band on apical margin Pronotum with distal band on disc (Figs. 32, 63) <i>bicinctus</i> DeLong	25

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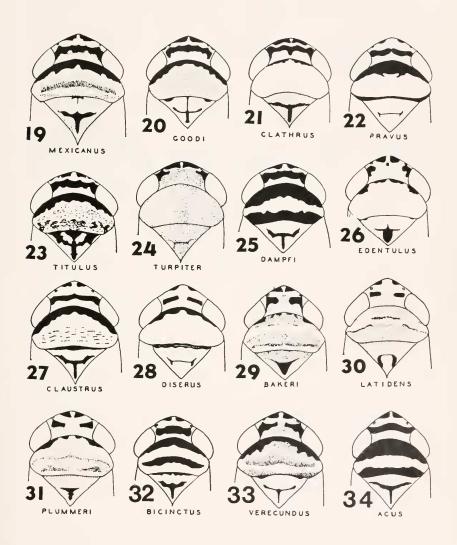
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23(22)	Female 7th sternum with posterior margin produced, with a squarish notch at center	
23'	Female 7th sternum with posterior margin notched at apex and bearing a small tooth(Figs. 34, 67) acus DeLong	
24(21')	Pronotum with a black transverse band on basal margin	25
24'	Pronotum with a faint line or spots.	30
25(24)	Apical margin of pronotum slightly margined with black	26
25'	Apical margin of pronotum not margined with black	27
26(25)	Female 7th sternum angularly produced, with a broad U-shaped notch 1/3 length of segment	
26`	Female 7th sternum broadly, slightly concave with a slight U-shaped notch(Figs. 27, 51) <i>claustrus</i> DeLong	
27(25')	Crown with a transverse black band	28
27	Crown with a broken transverse black band (Figs. 33, 58) verecundus	
- /		
20(27)	DeLong	
28(27)	Pronotum with irregular dark markings on disk (Figs. 23, 55)	
	<i>titulus</i> DeLong	
28`	Pronotum without irregular dark markings	29
29(28')	Female 7th sternum produced, with a shallow squarish excavation	
	(Figs. 19, 48) mexicanus DeLong	
29'		
29	Female 7th sternum roundly produced, with a slight V-shaped notch at apex	
	(Figs. 20, 47) goodi DeLong	
30(24)	Pronotum with a faint transverse line, straight or irregular	31
30'	Pronotum with black spots or irregular markings	33
31(30)	Pronotum with 2 incomplete transverse dark lines(Figs. 8, 41)	
51(50)	<i>corpulus</i> DeLong	
31°		22
	Pronotum with a broken line, or line bent cephalad at middle	32
32(31')	Pronotum bearing a broken transverse line	
	latidens DeLong	
32`	Pronotum with a transverse line bent cephalad at middle (Figs. 12, 39) <i>incidus</i> DeLong	
33(30')	Pronotum with large lateral black spots next to eyes	
55(50)	Fronorum with large lateral black spots next to eyes	
	(Fig. 72) nigrifrons DeLong	
33'	Pronotum with spots along basal margin	34
34(33')	Pronotum with a row black spots extending almost across basal margin	35
34*	Pronotum with black spots only on central portion of pronotum	36
35(34)	Pronotum with large black spots and transverse black bands on crown	00
00(01)	(Figs. 18, 53) insculptus DeLong	
252	Department in the line in the	
35'	Pronotum with smaller black spots and one broken transverse band on	
	crown (Figs. 14, 37) wickhami Ball	
36(34`)	Crown with a black transverse band (Figs. 21, 56) clathrus DeLong	
36'	Crown with a broken band, with spots or dashes	37
37(36')	Crown with rounded black spots only	38
37	Crown with elongate or squarish spots	39
		39
38(37)	Scutellum with black spots at apex(Figs. 26, 59) edentulus DeLong	
38°	Scutellum with black spots (Figs. 16, 49) excavatus DeLong	
39(37)	Distal portion of pronotum margined with black (Figs. 28, 61) diserus	
	DeLong	
39'	Distal portion of pronotum without black margin	40
40(39')	Female 7th sternum slightly notched each side of median apical tooth	40
+0(37)	Terrate / thisternuthistightly notched each side of median apical tooth	
101	(Figs. 29, 36) bakeri DeLong	
40'	Female 7th sternum sloping to median notched tooth	
	(Figs. 31, 65) plummeri DeLong	

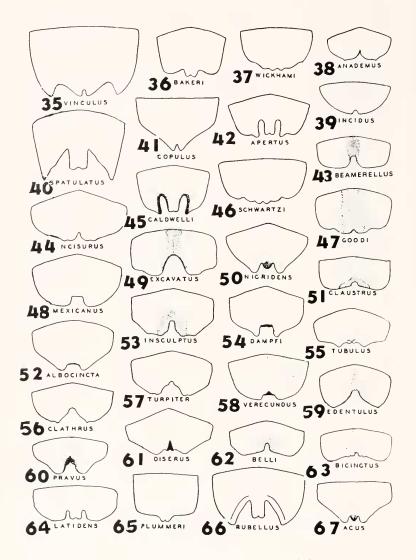
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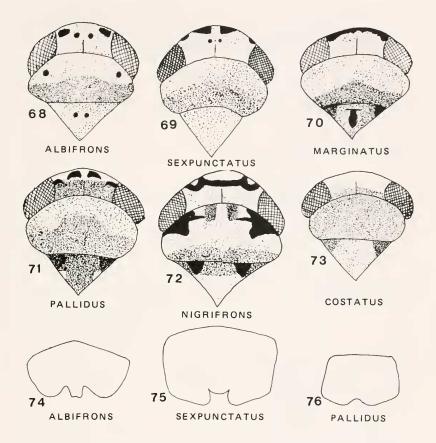
Figs. 1-18, Head, pronotum, species of Idiodonus, as labeled.



Figs. 19-34, Head, pronotum, and scutellum of species of Idiodonus, as labeled.



Figs. 35-67, Female 7th sterna of species of Idiodonus, as labeled.



Figs. 68, 74. *I. albifrons:* 68. head, pronotum, and scutellum; 74. female 7th sternum. Figs. 69, 75. *I. sexpunctatus:* 69. head, pronotum, and scutellum; 75. female 7th sternum. Fig. 70, *I. marginatus:* head, pronotum, and scutellum. Figs. 71, 76, *I. pallidus:* 71. head, pronotum, and scutellum; 76. female 7th sternum. Fig. 72. *I. nigrifrons:* head, pronotum, and scutellum. Fig. 73: *I. costatus*, head, pronotum, and scutellum.

LITERATURE CITED

Ball, E.D. 1936. Some New Genera of Leafhoppers Related to *Thamnotettix*. Bull. Brook. Entomol. Soc. 31(2): 57-60.

DeLong, D.M. 1946. The Mexican Species of *Idiodonus* (Homoptera: Cicadellidae). Ohio Jour. Sci. 46(1): 13-30.

1983. New Species and Distribution Notes of Mexican and Bolivian *Idiodonus* (Homoptera: Cicadellidae). Ent. News 94(3): 89-92.